



# HF Happenings 829

Volume 17, Issue 39, the week of 7 January 2019

You can now download your copy of HF Happenings from [www.sarl.org.za/hf\\_happenings.asp](http://www.sarl.org.za/hf_happenings.asp)

Southern African Fauna and Flora <https://zsfaunaandflora.wordpress.com/>

ZS SOTA <https://zssota.wordpress.com>

5 MHz (60 metre) allocations <http://www.sarl.org.za/public/contests/contestrules.asp>

[https://en.wikipedia.org/wiki/60-meter\\_band#External\\_links](https://en.wikipedia.org/wiki/60-meter_band#External_links)



This side is ZS3 and across the river is ZS4

## The 2019 Worked Zone 38 Award

According to the CQ Magazine's Worked all Zones award programme, Zone 38 is known as the South African Zone. The following entities are in Zone 38: Eswatini (Swaziland), Bouvet Island, Lesotho; Botswana, Namibia, Tristan da Cunha and Gough Island, Zimbabwe; South Africa; Marion Island and some Antarctic stations.

To obtain the 2019 Zone 38 Award, radio amateurs must provide evidence of working 38 stations in Zone 38 starting from 1 January 2019.

Get all the information at <https://zone38award.wordpress.com/>.

## WRTC 2022 Organizing Committee Unveils New Website, Initial Qualification Rules

The World Radiosport Team Championship 2022 (WRTC 2022) Organizing Committee has debuted its official website <http://wrtc2022.it/> as well as the Initial Qualification Rules [http://wrtc2022.it/en/?page\\_id=112](http://wrtc2022.it/en/?page_id=112), already under vigorous debate, to be selected as a WRTC 2022 team leader. While 2022 may seem a long way off, the qualifying events, 24 in all, take place between February 2019 and November 2020. Each qualifying event has a point value that's used in calculating qualifying scores and each entry category has been assigned a weighting factor. WRTC 2022 will be held in Bologna, Italy.

"Please don't think that WRTC is only for Top Guns," the announcement said. "You might have a chance." According to the announcement, WRTC 2022 Selection Areas are much smaller, so that operators on all continents will have more chances to qualify. Team leaders, once established, will select a team member from among the top applicants who did not qualify as team leaders. "WRTC 2022 is now for everybody. The only things that you will need are commitment, motivation and skill," the announcement said.



## January 2019

9 - Provincial schools open

12 and 13 - Hunting Lions in the Air

15 - Highway ARC Monthly Meeting

16 - National Rooibos Day

17 to 21 - Wolfkop Weekender, Citrusdal

18 to 20 - PEARS VHF/UHF contest

19 and 20 - N3TC Drak Challenge, Underberg

21 - May RAE registration opens

25 - Closing date for February Radio ZS

26 - Summer QRP contest; Delheim's

Harvest Festival, Stellenbosch;

International Day of Commemoration in Memory of the Victims of the Holocaust

26 and 27 - BARTG RTTY Contest

31 - Closing date for Nominations for Council, SARL Awards and AGM Motions

An e-mail reflector has been set up to field "suggestions, corrections and new ideas" on the Initial Qualification Rules <https://groups.google.com/forum/#!forum/wrtc2022reflector/join>. The Final Qualification Rules will be published on 31 January. The first qualifying event is the ARRL International DX CW Contest <http://www.arrl.org/arrl-dx>.

### IOTA DXpeditioner of the Year Award

The first year of the Island Radio Expedition Foundation's (IREF) "IOTA DXpeditioner of the Year" award has ended; the calculations are being made to determine the winners. "While IREF has been monitoring activations all year long, we want to be certain that all expeditioners who activated new, rare or multiple IOTA islands during the year to make sure that IREF has your expedition results. There may have been individuals who have been a part of multiple expeditions that might have been missed. Please send an e-mail to [ab5ebdxer@gmail.com](mailto:ab5ebdxer@gmail.com) with your expedition information. The rules for the Award can be found at <https://irefradio.com/activator-award/>".

### Most Wanted Lists

The "Most Wanted 100 Countries Archive" maintained by Tom, K8CX covers the years 1993 to 2018 and counting. The charts show the Top 100 DXCC Entities moving up and down the list from year to year; data come from The DX Magazine (2014 and before) and Club Log (since 2015). Visit (<http://hamgallery.com/countries/>)

ClubLog's Most Wanted. The "DXCC Most Wanted" entities list has been updated on ClubLog as of 28 December. The list contains 340 entities and here are the top 10 entities (which has not changed since last month). The complete "DXCC Most Wanted" entities list is available at <https://secure.clublog.org/mostwanted.php>

1. P5 DPRK (North Korea)
2. 3Y/B Bouvet Island
3. FT5/W Crozet Island
4. BS7H Scarborough Reef
5. CE0X San Felix Islands
6. BV9P Pratas Island
7. KH7K Kure Island
8. KH3 Johnston Island
9. VK0M Macquarie Island
10. FT5/X Kerguelen Island

### N1MM Logger+ Update

N1MM Logger+ version 1.0.7422, released on 1 January, includes changes to better support working in conjunction with WSJT-X in contests, including colour coding of multipliers and duplicate call signs <https://groups.io/g/rtydigital/message/325>.

When configured correctly, WSJT-X decodes a general call and shows it in the program's left-hand band activity window. It will also be sent to N1MM Logger+, which will display that call sign in a new WSJT-X-specific window - new in the 1 January release. The call sign colour will be set to red if it is an unworked multiplier, blue if the call sign is a new station but not a new multi, or grey if the call sign is already in the log. Clicking on that call sign in the N1MM Logger+ window will enter it in WSJT-X, poised to be worked using WSJT-X.

For stations using RTTY and FT8 in the ARRL RTTY Roundup, the status of any particular call sign or multiplier now will show in either program. Previously, it was not possible to initiate a contact in WSJT-X from N1MM Logger+.

Switching between RTTY and FT8 (from the WSJT-X suite) will require different configurations for N1MM Logger+ for each mode. Either N1MM Logger+ or WSJT-X can directly control a transceiver at any time, but not both. Using separate .ini (configuration) files for N1MM Logger+ could ease the process. One configuration would be the "normal" RTTY configuration for N1MM Logger+, and the other would be a configuration that does not control the rig but does allow contacts to be logged from WSJT-X. See the N1MM Logger+ help file for more information.



[http://n1mm.hamdocs.com/tiki-index.php?page=Program+Installation+and+Setup#Multiple\\_ini\\_Files](http://n1mm.hamdocs.com/tiki-index.php?page=Program+Installation+and+Setup#Multiple_ini_Files).

## Contest Logging Software by EI5DI

EI5DI has over the past few years developed some software which may be of help to those seeking to carry out logging during HF Contesting. SD is excellent for fast, simple CW and SSB logging during HF contests, and is free and unrestricted. It supports IRTS contests and hundreds of others worldwide.

SD runs on Windows, Linux, and on Raspberry Pi 3. It may be downloaded from [www.ei5di.com](http://www.ei5di.com).

## African DX

*Contacts with stations on the African continent count towards the SARL's All Africa Award* ([www.sarl.org.za/public/awards/awards.asp](http://www.sarl.org.za/public/awards/awards.asp))



The Gambia, C5. Alan, G4DJX, will once again be active as C5DX from The Gambia between 16 and 23 February. This will be a school trip. We are not sure if this is going to be the same type of trip as the 2018 operation. Details were not provided. Activity will be limited to a "part-time operation" with 100 watts into an OCF dipole (40 – 10 m) using CW. QSL via LoTW or direct to G4DJX.

Togo, 5V. Members of the EIDX Group (namely EI2II, EI2JD, EI4CF, EI4HH, EI5GM, EI9FBB, EI9HQ, EI9HX, DJ7JC, DJ9RR, F5JTV, F5VHQ and YO8WW) will be active as 5V7EI from Togo between 14 and 26 March. They will operate CW, SSB and digital modes on 160 to 10 metres with up to five stations. Log search on Club Log and QSL via M0OXO's OQRS, LoTW or direct to M0OXO. Bookmark <https://5v7ei.com> for more information and updates.

## African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Djibouti, J2. Col, MM0NDX and Jonathan, MM0OKG will be active from Djibouti between 14 and 20 April. They will operate as J20DX/p from the rare Sept-Freres Islands (AF-059) indicatively on 15 to 17 April and maybe from Moucha Island (AF-053) for about 24 hours on 18 and 19 April. Their main target is AF-059 and actual dates might change slightly. Bookmark <https://j20dx.com/> for updates. They will also be active as J20DX/mm while at sea and as J20DX from the mainland. QSL via Club Log's OQRS and LoTW; direct cards via M0SDV.



## Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 7 to 14 January 2019

IQRP Quarterly Marathon  
08:00 UTC 7 January to 20:00 UTC 13 January  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW, SSB, Digital  
Bands: All  
Classes: Single Op  
Max power: 5 W  
Exchange: RS(T)  
Work stations: Once per mode  
QSO Points: 3 points per CW QSO; 2 points per SSB QSO; 1 point per digital QSO  
Multipliers: km/100 of QSO with maximum distance  
Score Calculation: Total score = total QSO points x distance mult  
Submit logs by: 27 January 2019  
E-mail logs to: [iqrpclub@arimontebelluna.it](mailto:iqrpclub@arimontebelluna.it)

Mail logs to: (none)  
Find rules at:  
[www.arimontebelluna.it/news/news\\_maratona\\_uk.htm](http://www.arimontebelluna.it/news/news_maratona_uk.htm)

ARS Spartan Sprint  
02:00 - 04:00 UTC 8 January  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW  
Bands: 80, 40, 20, 15, 10 m  
Classes: Skinny; Tubby  
Max power: 5 watts  
Exchange: RST, state, province or country and power  
Work stations: Once per band  
Submit logs by: January 10, 2019

E-mail logs to: [spartansprint@yahoo.com](mailto:spartansprint@yahoo.com)  
Mail logs to: (none)  
Find rules at:  
<http://arsgrp.blogspot.com/2009/02/so-whats-spartan-sprint-and-how-do-i.html>

QRP Fox Hunt  
02:00 - 03:30 UTC 9 January  
Geographic Focus: United States  
Participation: Worldwide  
Mode: CW  
Bands: 40 m Only  
Classes: Single Op - fox or hound  
Max power: 5 watts  
Exchange: RST, state, province or country, name and power output  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 03:30 UTC 10 January 2019  
E-mail logs to: (see rules)  
Mail logs to: (none)  
Find rules at:  
[www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)

Phone Fray  
02:30 - 03:00 UTC 9 January  
Geographic Focus: North America  
Participation: Worldwide  
Mode: SSB  
Bands: 160, 80, 40, 20, 15 m  
Classes: Single Op  
Max power: 100 watts  
Exchange: NA: Name and state, province or country; non-NA: Name  
Work stations: Once per band  
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 03:00 UTC 11 January 2019  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
Mail logs to: (none)  
Find rules at:  
[www.perluma.com/Phone\\_Fray\\_Contest\\_Rules.pdf](http://www.perluma.com/Phone_Fray_Contest_Rules.pdf)

CWops Mini-CWT Test  
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 9 January and 03:00 - 04:00 UTC 10 January  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide

Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op - QRP, low or high  
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts  
Exchange: Member: Name and member no; non-Member: Name and state, province or country  
Work stations: Once per band  
QSO Points: 1 point per QSO  
Multipliers: Each call once  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 04:00 UTC 12 January 2019  
Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
Mail logs to: (none)  
Find rules at: <https://cwops.org/cwops-tests/>

NCCC RTTY Sprint  
01:45 - 02:15 UTC 11 January  
Geographic Focus: North America  
Participation: Worldwide  
Mode: RTTY  
Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 13 January 2019  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com/](http://www.3830scores.com/)  
Mail logs to: (none)  
Find rules at: [www.ncccsprint.com/rttyns.html](http://www.ncccsprint.com/rttyns.html)

QRP Fox Hunt  
02:00 - 03:30 UTC 11 January  
Geographic Focus: United States  
Participation: Worldwide  
Mode: CW  
Bands: 80 m Only  
Classes: Single Op - fox or hound  
Max power: 5 watts  
Exchange: RST, state, province or country, name and power output  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 03:30 UTC 12 January 2019  
E-mail logs to: (see rules)  
Mail logs to: (none)  
Find rules at:  
[www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)

NCCC Sprint Ladder  
02:30 - 03:00 UTC 11 January  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW



Bands: 160, 80, 40, 20, 15, 10, 6 m  
 Classes: Single Op  
 Max power: 100 watts  
 Exchange: Serial no, name and QTH  
 Work stations: Once per band  
 QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
 Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 13 January 2019  
 E-mail logs to: (none)  
 Post log summary at: [www.3830scores.com/](http://www.3830scores.com/)  
 Mail logs to: (none)  
 Find rules at: [www.ncccsprint.com/rules.html](http://www.ncccsprint.com/rules.html)

#### YB DX Contest

00:00 - 23:59 UTC 12 January  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: SSB  
 Bands: 80, 40, 20, 15, 10 m  
 Classes: Single Op All Band - low or high; Multi-Single  
 Max power: HP: 1 500 watts; LP: 100 watts  
 Exchange: RS and serial no  
 Work stations: Once per band  
 QSO Points: 1 point per QSO with same country; 2 points per QSO with different country same continent; 3 points per QSO with different continent  
 Multipliers: Each YB prefix once per band; Each DXCC country once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 19 January 2019  
 E-mail logs to: (none)  
 Upload log at: <http://ybdxcontest.com/logs/log-submission/>  
 Mail logs to: (none)  
 Find rules at: <http://ybdxcontest.com>

#### Old New Year Contest

05:00 - 09:00 UTC 12 January  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW, SSB  
 Bands: 80, 40, 20, 15, 10 m  
 Classes: Single Op - CW, SSB or mixed - low or high; Single Op on Air >50 Years - low or high; Club - low or high; SWL  
 Exchange: RST and sum of operator age and years on the air  
 Work stations: Once per band per mode

QSO Points: Copied age and experience  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 27 January 2019  
 E-mail logs to: [contest@radio.ru](mailto:contest@radio.ru)  
 Mail logs to: (none)  
 Find rules at: [www.radio.ru/cq/contest/rule-results/index7.shtml](http://www.radio.ru/cq/contest/rule-results/index7.shtml)

#### SKCC Weekend Sprintathon

12:00 UTC 12 January to 24:00 UTC 13 January  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Awards: Worldwide  
 Mode: CW  
 Bands: 160, 80, 40, 20, 15, 10, 6 m  
 Classes: (none)  
 Max operating hours: 24  
 Exchange: RST, state, province or country, name and SKCC no or none  
 Work stations: Once per band  
 QSO Points: 1 point per QSO  
 Bonus Points: (see rules)  
 Multipliers: Each state, province, or country once  
 Score Calculation: Total score = (total QSO points x total mults) and bonus points  
 Submit logs by: 20 January 2019  
 Post log summary at: [www.skccgroup.com/operating\\_activities/weekend\\_sprintathon/submit-display.php](http://www.skccgroup.com/operating_activities/weekend_sprintathon/submit-display.php)  
 Mail logs to: (none)  
 Find rules at: [www.skccgroup.com/operating\\_activities/weekend\\_sprintathon/](http://www.skccgroup.com/operating_activities/weekend_sprintathon/)

#### UBA PSK63 Prefix Contest

12:00 UTC 12 January to 12:00 UTC 13 January  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: BPSK63  
 Bands: 80, 40, 20, 15, 10 m  
 Classes: Single Op All Band - QRP or low; Single Op Single Band - QRP or low; Multi-Op; SWL  
 Max power: LP: 50 watts; QRP: 5 watts  
 Exchange: ON: RSQ and UBA Section; non-ON: RSQ and serial no (starting with 001)  
 Work stations: Once per band  
 QSO Points: 1 point per QSO  
 Multipliers: Each prefix once per band; Each UBA section once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 20 January 2019  
 E-mail logs to: [ubapsk63@uba.be](mailto:ubapsk63@uba.be)  
 Mail logs to: (none)  
 Find rules at: [www.uba.be/en/hf/contest-rules/uba-psk63-prefix-contest-rules](http://www.uba.be/en/hf/contest-rules/uba-psk63-prefix-contest-rules)

North American CW QSO Party  
 18:00 UTC 12 January to 05:59 UTC 13 January  
 Geographic Focus: North America  
 Participation: Worldwide  
 Awards: North America  
 Mode: CW  
 Bands: 160, 80, 40, 20, 15, 10 m  
 Classes: Single Op - QRP or low; Multi-Two (Low)  
 Max operating hours: Single Op: 10 hours; Multi-Two: 12 hours  
 Max power: LP: 100 watts; QRP: 5 watts  
 Exchange: NA: Name and state, DC, province or country; non-NA: Name  
 Work stations: Once per band  
 QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
 Multipliers: Each US state and DC (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 05:59 UTC 18 January 2019  
 E-mail logs to: (none)  
 Upload log at: [www.ncjweb.com/naqplogsubmit/](http://www.ncjweb.com/naqplogsubmit/)  
 Mail logs to: Chris Hurlbut, KL9A, 1733 E. Broad Ave., Spokane, WA 99207, USA  
 Find rules at: [www.ncjweb.com/NAQP-Rules.pdf](http://www.ncjweb.com/NAQP-Rules.pdf)

NRAU-Baltic SSB Contest  
 05:30 - 07:30 UTC 13 January  
 Geographic Focus: Nordic/Baltic countries  
 Participation: Nordic/Baltic countries  
 Mode: SSB  
 Bands: 80, 40 m  
 Classes: Single Op - low or high; Multi-Op  
 Max power: HP: >100 watts; LP: 100 watts  
 Exchange: RS, serial no and 2-letter Fylke, Lan, Province or Region  
 Work stations: Once per band  
 QSO Points: 2 points per QSO  
 Multipliers: Each Fylke/Lan/Province/Region, once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 20 January 2019  
 E-mail logs to: [log-ssb@nrau.net](mailto:log-ssb@nrau.net)  
 Mail logs to: (none)  
 Find rules at: [www.nrau.net/nrau-baltic-contest/rules/23-nrau-baltic-contest-rules.html](http://www.nrau.net/nrau-baltic-contest/rules/23-nrau-baltic-contest-rules.html)

NRAU-Baltic CW Contest  
 08:00 - 10:00 UTC 13 January  
 Geographic Focus: Nordic/Baltic countries  
 Participation: Nordic/Baltic countries  
 Mode: CW

Bands: 80, 40 m  
 Classes: Single Op - low or high; Multi-Op  
 Max power: HP: >100 watts; LP: 100 watts  
 Exchange: RST serial no and 2-letter Fylke, Lan, Province or Region  
 Work stations: Once per band  
 QSO Points: 2 points per QSO  
 Multipliers: Each Fylke/Lan/Province/Region, once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 20 January 2019  
 E-mail logs to: [log-cw@nrau.net](mailto:log-cw@nrau.net)  
 Mail logs to: (none)  
 Find rules at: [www.nrau.net/nrau-baltic-contest/rules/23-nrau-baltic-contest-rules.html](http://www.nrau.net/nrau-baltic-contest/rules/23-nrau-baltic-contest-rules.html)

DARC 10-Meter Contest  
 09:00 - 10:59 UTC 13 January  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW, SSB  
 Bands: 10 m Only  
 Classes: DL Single Op - CW, SSB or mixed - low or high; non-DL Single Op - CW, SSB or mixed  
 Max power: HP: >100 W; LP: 100 W  
 Exchange: DL: RS(T), QSO no and DOK; non-DL: RS(T) and QSO no  
 Work stations: Once only  
 QSO Points: 1 point per QSO  
 Multipliers: Each WAE/DXCC country once; Each DOK once  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 20 January 2019  
 E-mail logs to: (none)  
 Upload log at: [www.darc.de/der-club/referate/conteste/darc-10-m-contest/logupload/](http://www.darc.de/der-club/referate/conteste/darc-10-m-contest/logupload/)  
 Mail logs to: (none)  
 Find rules at: [www.darc.de/der-club/referate/conteste/darc-10-m-contest/regeln/](http://www.darc.de/der-club/referate/conteste/darc-10-m-contest/regeln/)

Classic Exchange, CW  
 13:00 UTC 13 January to 07:00 UTC 14 January and 13:00 UTC 15 January to 07:00 UTC 16 January  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW  
 Bands: 160, 80, 40, 20, 15, 10, 6, 2 m  
 Classes: (see rules)  
 Exchange: Name, RST, state, province or country and rcvr/xmtr manuf/model  
 Work stations: Once per band per mode per rcvr/xmtr manuf/model  
 QSO Points: (see rules)  
 Multipliers: (see rules)

Score Calculation: Total score = sum(total mode QSO points x total mode mults) and Bonus Points  
 Submit logs by: 30 April 2019  
 E-mail logs to: [k2rp@arrl.net](mailto:k2rp@arrl.net)  
 Mail logs to: K2RP, 659 Shanas Lane, Encinitas, CA 92024, USA  
 Find rules at:  
[www.classicexchange.org/jan19/Winter\\_2019\\_CX\\_Rules.pdf](http://www.classicexchange.org/jan19/Winter_2019_CX_Rules.pdf)

RSGB AFS Data Contest  
 13:00 - 17:00 UTC 13 January  
 Mode: RTTY, PSK  
 Bands: 80, 40 m  
 Classes: Single Op/Multi-Op – low, medium or high (see rules for team requirements)  
 Max power: HP: 400 watts (RTTY), 100 watts (PSK); MP: 100 watts; LP: 10 watts  
 Exchange: RST and serial no  
 QSO Points: 1 point per QSO  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 23:59 UTC 14 January 2019  
 Upload log at: [www.rsgbcc.org/cgi-bin/hfenter.pl](http://www.rsgbcc.org/cgi-bin/hfenter.pl)

Mail logs to: (none)  
 Find rules at:  
[www.rsgbcc.org/hf/rules/2019/rafs.shtml](http://www.rsgbcc.org/hf/rules/2019/rafs.shtml)

4 States QRP Group Second Sunday Sprint  
 01:00 - 03:00 UTC 14 January  
 Geographic Focus: North America  
 Participation: Worldwide  
 Mode: CW, SSB  
 Bands: 160, 80, 40, 20, 15, 10 m  
 Classes: Single Op  
 Exchange: Member: RS(T), state, province or country and member no; Non-member: RS(T), state, province or country and power  
 Work stations: Once per band  
 QSO Points: 1 point per QSO with non-member; 2 points per QSO with member  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 16 January 2019  
 E-mail logs to: (none)  
 Post log summary at: <http://qrpccontest.com/4sqrp>  
 Mail logs to: (none)  
 Find rules at: [www.4sqrp.com/SSS/sss\\_rules.pdf](http://www.4sqrp.com/SSS/sss_rules.pdf)

## Next Week's Contests

Classic Exchange, CW, 13:00 UTC 13 January to 07:00 UTC 14 January and 13:00 UTC 15 January to 07:00 UTC 16 January  
 QRP Fox Hunt, 02:00 - 03:30 UTC 16 January  
 Phone Fray, 02:30 - 03:00 UTC 16 January  
 CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 16 January and 03:00 - 04:00 UTC 17 January  
 NAQCC CW Sprint, 01:30 - 03:30 UTC 17 January  
 NCCC RTTY Sprint, 01:45 - 02:15 UTC 18 January  
 QRP Fox Hunt, 02:00 - 03:30 UTC 18 January  
 NCCC Sprint Ladder, 02:30 - 03:00 UTC 18 January  
 LZ Open Contest, 18:00 - 22:00 UTC 18 January  
 Hungarian DX Contest, 12:00 UTC 19 January to 11:59 UTC 20 January  
 RSGB AFS SSB Contest, 13:00 - 17:00 UTC 19 January  
 North American SSB QSO Party, 18:00 UTC 19 January to 05:59 UTC 20 January  
 NA Collegiate SSB Championship, 18:00 UTC 19 January to 05:59 UTC 20 January  
 ARRL January VHF Contest, 19:00 UTC 19 January to 03:59 UTC 21 January  
 WAB 1.8 MHz Phone/CW contest, 19:00 - 23:00 UTC 19 January  
 Feld Hell Sprint, 20:00 - 23:59 UTC 19 January (EU - AF) and 23:00 UTC 19 January to 02:59 UTC 20 January (ENA - ESA) and 02:00 - 05:59 UTC 20 January (WNA - OC - AS)  
 Run for the Bacon QRP Contest, 02:00 - 04:00 UTC 21 January

*Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter*